

**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

<b>CONTRACTOR</b>	<b>CONTRACT NO./TASK NO.</b>		<b>JOB ORDER NUMBER</b>	<b>APPROP. FY</b>
QSS Group, Inc.	NAS5- <b>99124</b>	TASK NO. <b>84</b>	415-616-41-29-89	99

TASK TITLE: (NTE 80 characters; include Project name)

**GOES Project Systems Engineering Services -- GOES-N-Q**

APPROVALS: (Type or print name and sign)

ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)

David Mitchell <i>David F. Mitchell</i>	DATE 9/13/99	ORG CODE 415	MAIL CODE 415	PHONE 301-286-0415
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BRANCH HEAD

Martin A. Davis <i>Martin A. Davis</i>	DATE 9/24/99	CODE 415	PHONE 301-286-8998
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CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

Robert S. Lebaire, Jr. <i>Deborah A. Clark</i>	DATE 9/29/99	CODE 560	PHONE 301-286-6588
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FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE?

(IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)

CONTRACTING OFFICER'S QUALITY REP.

☒ NO ☐ YES

Larry Moore

DESIGNATED FAM:

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)

C.O. Requested Quote on:

Date: MAY 17 1999

Contractor will develop specification or statement of work under this task for a future procurement. ☒ NO ☐ YES

Flight hardware will be shipped to GSFC for testing prior to final delivery. ☐ NO ☐ YES ☒ N/A

Government Furnished Property/Facilities: ☐ NO ☒ YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)

Onsite Performance: ☐ NO ☒ YES If yes: ☐ TOTAL ☐ PARTIAL  
If partial, indicate onsite work in SOW by asterisk (\*)

Surveillance Plan Attached: ☒ NO ☐ YES

Highlighted Contract Clauses: (to be completed by Contracting Officer)

Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be May 17, 1999.

**INCENTIVE FEE STRUCTURE (check one)**

(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

	<input checked="" type="checkbox"/> No. 1	<input type="checkbox"/> No. 2	<input type="checkbox"/> No. 3	<input type="checkbox"/> No. 4	<input type="checkbox"/> No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(To be completed by Contracting Officer)

The target cost of this task order is \$ 686,488.

The target fee of this task order is \$ 44,586.

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 731,074.

The maximum fee is \$ 65,165.

The minimum fee is \$0.

AUTHORIZED SIGNATURE:

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"

*Lorrie L. Eakin*  
SIGNATURE OF CONTRACTING OFFICER

2/23/00  
DATE

Lorrie L. Eakin  
Contracting Officer

TYPED NAME OF CONTRACTING OFFICER

CONTRACTOR'S ACCEPTANCE:

AUTHORIZED SIGNATURE

DATE

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QSS Group, Inc.	NAS5- 99124	84	

Applicable paragraphs from contract Statement of Work: Function 2b

**STATEMENT OF WORK:** (Continue on blank paper if additional space is required)

The contractor shall provide system engineering evaluations and assessments of the GOES-N-Q spacecraft and instruments for compliance to the Performance Specifications, Statements of Work, and Interface Control Documents. Other activities will be an assessment of the spacecraft integration and mission operations plans. This work is required to ensure the successful design, build, test, launch and operation of the GOES-N-Q satellites. In addition, the contractor shall supply onsite personnel to ensure the smooth flow and engineering checkout of the satellite.

a. Provide engineering capabilities to ensure proper design review of mechanical and electro-mechanical devices on GOES N-Q satellites. This work shall be accomplished during the design, development, fabrication, testing and launch activities of the GOES N-Q satellite.

b. Assess design reviews, evaluate testing and integration activities, evaluate system performance, physically participate in required launch activities, and participate in all phases of operation planning for subsystems and instruments.

c. Provide systems engineering analysis for the design and development of the GOES N-Q Radio Frequency (RF) communications subsystem and related efforts required to successfully complete GOES integration and test activities.

d. Provide systems engineering analysis for the design and development of the GOES N-Q Telemetry and Command (T&C) subsystem and related efforts required to successfully complete these integration and test activities.

e. Provide Imager/Sounder test and integration engineering assessment to insure reliable development and testing at vendor facilities. Coordinate GSFC support services when required, and manage, with Code 415 personnel, the integration of each instrument on the spacecraft.

f. Provide engineering and analysis services to the GOES Project to evaluate the design, development and test of the GOES N-Q SXI instrument.

g. Coordinate software ACE modeling for engineering and simulations purposes - in coordination with the MOST team.

**PERFORMANCE SPECIFICATIONS:**

Review and all non-conformance reports and assess problems, issues and impacts of non-conformance, recommend actions.

Weekly reports shall contain a summary of activities completed, planned activities for the following week, problems, issues and recommended actions

**APPLICABLE DOCUMENTS:**

None.

**TASK END DATE:** 4/30/00**MILESTONES/DELIVERABLES AND DATES:**

- |  |  |
|--|--|
| 1. Non-conformance review and analysis | Within 3 days of assignment by ATR                                       |
| 2. Weekly assessment reports           | Email by COB each Friday to the ATR:<br>David.F.Mitchell.1@gsfc.nasa.gov |

**PERFORMANCE STANDARDS:**

Schedule: On-time delivery/completion of the above  
Technical: ATR's acceptance of the above

**FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):**

David Mitchell, building 6, room W223

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**STATEMENT OF WORK:** (Continued)

h. Provide system engineering services to maintain and update the database for the GOES Incident Reports (GIRs). Coordinate this work with the SOCC, NOAA, NASA and the N-Q prime contractor.

i. Provide analysis of the SXI instrument performance test activity at the SXI contractor's facilities and evaluate SXI electrical and mechanical interfaces with the spacecraft. Provide EMI/EMC evaluation at the SXI facilities as required.

j. Conduct technical studies and analyses of spacecraft subsystems to determine the best systems configuration to accomplish mission objectives.

k. Identify critical and potential problem areas and prepare plans for their resolution.

l. Provide services in support of test planning, test performance, and test data analysis to ensure the function and reliability of the flight and ground systems, and the attainment of payload performance objectives.

Travel to flight hardware vendors at least one week per month is anticipated.